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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Craig and Colyer
Serial No.: 09/511,776
Filed: 2/24/00
Entitled: Methods and Compositions Using Protein Binding Partners

Examiner: Gabel

Group Art Unit: 1641

Box Non Fee Amendment
Commissioner for Patents
Washington, D.C. 20231

RESPONSE TO OFFICE ACTION

This Amendment is filed in response to the Office Action, dated June 7, 2001, in the above-identified application.

IN THE CLAIMS:

Please amend claims 1, 2, 4-7, 10-11, 13-14, 19, 20 and 22. Please cancel claims 3 and 9.

Sub A
1. (Amended) A method for determining the conformational state of a protein, comprising the steps of:

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a) contacting a protein with a labeled first binding partner which binds to said protein in a manner dependent on the conformational state of said protein and which generates a signal in a manner dependent on the binding of the first binding partner to the protein, and a labeled second binding partner which binds to said protein, wherein said protein and said labeled first or second binding partner are not covalently coupled; and

b) detecting said protein by the binding of at least-one of said labeled first binding partner or said labelled second binding partner to said protein wherein labelling of said protein is an indicator of the conformational state of said protein.

2. (Amended) A method for measuring the activity of an enzyme, wherein the conformation of a protein is dependent upon the post-translational modification activity of the enzyme, the method comprising the steps of: